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	AP1	WO S	8/14565	04/09/1998	M1b0		}	Yes No
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	AR	1	Adams, M.D. Project," S	et al , "Compli cience 252:1651	ementary DNA Sequencing: Expres -1656 (1991)	sed Sequence	Tags and Hum	an Genome
	AS	1	Adams, M.D. (1992)	et al., "Seque	nce identification of 2,375 hum	an brain gen	es," Kature 35	55:632-634
	AT	1	Aggarwal, B Eur Cytokii	_B. and K. Nata ne Netw. 7(2):93	rajan, "Tumor necrosis factors: 5-124 (April-June 1996)	Development	s during the	last decade,"
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Mar-04-04 09:29am From-HGS INTELLECTUAL PROPERTY DEPT 3013098439 T-254 P.03 F-796 10AL T 01 77 ATTY. DOCKET NO. APPLICATION NO. 1488.0310005 09/333,966 FORM PTD-1449 APPLICANT Yu et al. INFORMATION DISCLOSURE STATEMENT FILING DATE GROUP June 16, 1999 1646 U.S. PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT NUMBER DATE MAME CLASS SUB-CLASS FILING DATE AA AB AC ΑĐ AE AF AG AH ΑI LA AK FOREIGN PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT NUMBER DATE COUNTRY SUB-CLASS TRANSLATION CLASS. Yes AL N٥ Yes AM NO Yes AN NO Yes AO No Yes AP No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) AR <u>2</u> Altschul, S.F. et al , "Basic Local Alignment Search Tool," J Mol Biol 215:403-410 (1990) Ansari, A.A. et al , "HLA-D gene studies in relation to immune responsiveness to a grass allergen AS 2 LoI p 111, " Immunogenet. 33:24-32 (1991) Armitage, R.J., "Tumor necrosis tactor receptor superfamily members and their ligands," Curr AT 3 Opin Immunol 6:407-413 (June 1994)

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	AT	<u>4</u>	Birkeland, m	i.t. et al , "Geni Tein," Eur J In	estructure and chromosom mmuno? 25:926-930 (April	ial Localizat 1995)	ion of	the mouse h	omologue of
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	AS	<u>10</u>	Johnson, D.	et al., "Expres:	sion and Structure of the Muman	NGF Recept	or," <i>Cell 47</i> :5	45-554 (1986)
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	AS	13	Marsters, S a death dom	s. et al , "Apo Bain and activa	o-3, a new member of the t ates apoptosis and NF-KB,	cumor necrosis 1 • Current Biolog	iactor receptor fa ly δ:1669-1676 (De	mīly, contains cember 1996)	
	AT	13	Hontgomery, Virus 1 Ent	R.I. et al , ry Into Cells	"A New Member of the TNG," Eur Cytakine Netw 7(2	/NGF Receptor Fa):159, Abstract	amily Can Mediate No. L7 (1996)	Herpes Simplex	
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	AR	16	Muzio, M. e CD95 (Fas/A	t al., "FLICE, A PO-1) Death-Indu	Novel FADD-Homologous ICE/CED-3 cing Signating Complex, * Cell 85	-like P :817-82	rotease, Is 7 (June 1996	Recruited	1 to the
	AS	14	Nakagawa, T PC6, a Kex2	. et al., "Identi -like processing	ification of an isoform with an endoprotease," FEBS Letter 327:	extreme: 165-171	ly large Cys (1993)	-rich reg	jion of
	AT	14	type 1 TNF-	R, cloned using a	forms of tumor necrosis factor amino acid sequence data of its of the receptor," EMBO J. 9(10):	solubte	form, encod	The cDM les both 1	IA for the the celi
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	TA	15	Pollok, K.E	.eta), "Induc	ible T Cell Antigen 4-18	B,≪ J Immuno	ol 150c3	3):771-781 (1993)
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	AT	<u>16</u>	Rossol-Voth	, R- et al , "[n l infection with	vivo protective effect of tumor herpes simplex virus type 1,4 J	necrosis fa	ictor α agair - <i>72</i> :143-147	nst '(1991)
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	AT	17	Screaton, Calternative	i. et al , "LAF e pre-mRNA spt	RD: A new lymphoid-specif icing," <i>Proc NaTl. Acad</i> .	ic death domai Sci. USA 94:46	n contai 15-4619	ning recept (April 1997	or regulated by
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	AS	18	Smith, C.A. the TNF Rec	et al , "T2 Oper eptor," Blochem	n Reading Frame from the Shope F Biophys Res. Comm. 176(1):335-34	ibroma Vīrus 2 (1 991)	Encodes a S	Soluble form of
	AT	18	Smith, C.A. Pefines an	et al , "CD30 Ar Emerging family	ntigen, a Marker for Hodgkin's Ly of Cytokines with Homology to TW	ymphoma, Is F, • Cell 73:	a Receptor V 1349-1360 (1	Mose Ligand 993)
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	AS	19	Stamenkovic receptor an	, I. et al , "A d induced by cy	B-Lymphocyte activation mo Tokines in carcinomas,# <i>EMB</i>	lecule relat 0 J 8(5):14	ed to the nerve <u>s</u> 03-1410 (1989)	rowth factor	
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	AS .	20	Tartaglia, 74:845-853	L.A. et al , "A (1993)	Novel Domain within the 55 kd T	NF Receptor	Signals Cell	beath," Cell	
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Fage 1 of 35 ATTY. DOCKET NO APPLICATION NO. 1488.0310005 449,233,964 FORM P10-1449 APPLICANT Yu el ul INFORMATION DISCLOSURE STATEMENT FILING DATE GROUP June 16, 1999 1646 U.S. PATENT DOCUMENTS EXAMINER DOCUMENT NUMBER DATE HAME CLASS SUB-CLASS FILING DATE ÄÄI 5,395,760 03/07/1995 435 Smith et al 240.1 05/10/1990 AB1 5,464,938 11/07/1995 530 350 Smith et al 08/18/1994 ΑC ۸D AΕ AF ΑG AH AI A. AΚ FOREIGN PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-CLASS TRANSLATION Yes EP 0 585 939 A2 03/09/1994 £urope NO Yes IMA WO 94/09137 04/28/1994 WIPO NO Yes HO 94/13808 06/23/1994 WIPO AN1 NO Yes 407 WO 97/37020 10/09/1997 WIPO No Yes WO 98/14565 APT 04/09/1998 WIPO NO OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Adams, M.D. et al. "Complementary DNA Sequencing: Expressed Sequence Tags and Numan Genome Project." Science 252:1651-1656 (1991) AR 1 Adams, M.D. et al. "Sequence identification of 2,375 human brain genes," Nature 355:632-634 1 (1992)Aggarmul, B.B. and K. Natarajan, "Tumor necrosis factors: Developments during the last decade," ΑŢ 1 Eur Cytokina Netw 7(2):93-124 (April-June 1996) EXAMINER DATE CONSIDERED T-16- 00 1000

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	AM	WO 98/02543	01/22/1998	Chugai Research Institute for Molecular Medicine, Inc.		Τ
	AN	WO 98/06842	02/19/1988	Schering Corporation		✝
	AO	WO 98/07832	02/26/1998	Ludwig Institute for Cancer Research and Helsinki Univ. Liccensing Ltd., Oy		
	AP	WO 98/07880	02/26/1998	Human Genome Sciences, Inc.		十
	AQ	WO 98/14565	04/09/1998	Immunex Corporation		T
	AR	WO 98/18921	05/07/1998	Human Genome Sciences, Inc.		$\vdash$
	AS	WO 98/30693	07/16/1998	Human Genome Sciences, Inc.		<del>                                     </del>
	AT	WO 98/30694	07/16/1998	Human Genome Sciences, Inc.		$\vdash$
	AU	WO 98/32466	07/30/1998	Polymasc Pharmaceuticals PLC		$\top$
	AV	WO 98/41629	09/24/1998	Human Genome Sciences, Inc.		1
	AW	WO 98/49305	11/05/1998	Amgen, Inc.		Τ
	AX	WQ 98/56892	12/17/1998	Human Genome Sciences, Inc.		Т
	AY	EP 0 506 477 B1	09/30/1992	Merck & Co., Inc.		T
	AZ	WO 00/08139	02/17/2000	Human Genome Sciences, Inc.		Т
	ВА	CA 2,260,754	01/22/1998	Chugai Research institute for Molecular Medicine, Inc.		Γ

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Substitute for form 14496/PTO		Complete if Known			
2003				Application Number	09/333,966
١N	<b>IFORMATION</b>	N DI	SCLOSURE	Filing Date	June 16, 1999
STATEMENT BY APPLICANT				First Named Inventor	Guo-Liang Yu
Ŭ				Ar Unit	1646
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Sheet	2	of	4	Attorney Docket Number	PF267D1

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), Title of the author (when appropriate), title of the	
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	ВВ	Arend et al. "Binding of II-1α, IL-1β, and IL-1 Receptor Antagonist by Soluble IL-1 Receptors and Liveles of Soluble IL-1 Receptors in Synovial Fluids," J. Immunol. 153:4766-4774 (1994)	
	BC	Ashkenazi, A. et al., "Protection against endotoxic shock by a tumor necrosis factor receptor immunoadhesin," Proc. Natl. Acad. Sci. USA 88 10535-10539 (1991)	
	BD	Beutler, B., and Cerami, A., "Tumor Necrosis, Cachexia, Shock, and Inflammation: A Common Mediator," <i>Ann. Rev. Biochem.</i> 57:505-518 (1988)	
	BE	Boldin, M.P. et al., "A Novel Protein That Interacts with the Death Domain of Fas/APO1 Contains a Sequence Motif Related to the Death Domain," J. Biol. Chem. 270:7795-7798 (April 1995)	
	BF	Boldin, M.P. et al., "Involvement of MACH, a Novel MORT1/FADD-Interacting Protease, in Fas/APO-1- and TNF Receptor-Induced Cell Death," <i>Cell</i> 85.803-815 (June 1996)	
	BG.	Caliceti, P., et al., "Biopharmaceutical Properties of Uricase Conjugated to Neutral and Amphiphilic Polymers," <i>Bioconjugate Chem.</i> 10:638-646 (August 1999)	
	Вн	Chinnaiyan, A.M. et al., "FADD, a Novel Death Domain-Containing Protein, Interacts with the Death Domain of Fas and Initiates Apoptosis," Call 81:505-512 (May 1995)	
	Ві	Chinnaiyan, A.M. et al., "FADD/MORT1 Is a Common Mediator of CD95 (Fas/APO-1) and Tumor Necrosis Factor Receptor-induced Apoptosis," J. Biol. Chem. 271.4961-4965 (March 1996)	
	ВЛ	Corti, A. et al., "Identification of an Epitope of Tumor Necrosis Factor (TNF)-Receptor Type 1 (p55) Recognized by a TNF-q-Antagonist Monoclonal Antibody," Lymphokine Cytokine Res. 13:183-190 (June 1994)	
	ВК	Delgado, C, et al., "The Uses and Properties of PEG-Linked Proteins," Clin. Rev Ther. Drug Carrier Systems 9:249-304 (1992)	
	BL	Deng, B., et al., "An Agonist Murine Monoclonal Antibody to the Human c-Mpl Receptor Stimulates Megakaryocytopolesis," Blood 92:1981-1988 (September 1998)	
	ВМ	Fiers, W., "Tumor necrosis factor," FEBS Lett. 285.199-212 (1991)	
	BN	Francis, G.E. et al., "PEGylation of cytokines and other therapeutic proteins and peptides: the importance of biological optimisation of coupling techniques," . Intl. J. Hematol. 68:1-18 (July 1998)	

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				Application Number	09/333,966	
11	IFORMATI	ON DI	SCLOSURE	Filing Date	June 16, 1999	
S	TATEMEN	TBY	APPLICANT	First Named Inventor	Guo-Liang Yu	
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Sheet	3	at	4	Attorney Docket Number	PF267D1	

	1.	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS  Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the	
nivais nivais	Cite No 1	item (book, magazine, journal, senzil, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, cry and/or country where published.	Τ²
	BO	Fu, M L.X. et al., "Characterization of anti-peptide antibodies directed against an extracellular immunogenic epitope on the human α ₁ -adrenergic receptor," Clin. Exp. Immunol. 97:146-151 (July 1994)	
	BP	Goeddel, D.V. et al., "Tumor Necrosis Factors. Gene Structure and Biological Activities," Cold Spring Harbor Symp. Quant. Biol. LI:597-609 (1986)	
	BQ	Hahne, M., et al., "APRIL, a New Ligand of the Tumor Necrosis Factor Family, Stimulates Tumor Cell Growth," J. Exp. Med. 188:1185-1190 (September 1998)	
	BR	Hsu, H et al., "The TNF Receptor 1-Associated Protein TRADD Signals Cell Death and NF-kB Activation," Cell 81:495-504 (May 1995)	
	BS	Hsu, H et al., "TRADD-TRAF2 and TRADD-FADD Interactions Define Two Distinct TNF Receptor 1 Signal Transduction Pathways," Cell 84:299-308 (January 1996)	
	BT	Hsu, H. et al., "TNF-Dependent Recruitment of the Protein Kinase RIP to the TNF Receptor-1 Signaling Complex," Immunity 4:387-396 (April 1996)	0
	BU	Hughes, D.P M and Crispe, I.N., "A Naturally Occurring Soluble Isoform of Murine Fas Generated by Alternative Splicing," <i>J. Exp. Med.</i> 182:1395-1401 (November 1995)	
	B∨	Kischkel, F.C. et al., "Cytotoxicity-dependent APO-1 (Fas/CD95)-associated proteins form a death-inducing signaling complex (DISC) with the receptor," <i>EMBO</i> 14:5579-5588 (November 1995)	
	BW	Malik, F., et al., "Polyethylene Glycol (PEG)-modified Granulocyte-Macrophage Colony-stimulating Factor (GM-CSF) with Conserved Biological Activity," Exp. Hematol 20:1028-1035 (1992)	
	BX	Morpurgo, M, et al., "Covalent Modification of Mushroom Tyrosinase with Different Amphiphic Polymers for Pharmaceutical and Biocatalysis Applications," App. Biochem. Biotech. 56:59-72 (January 1996)	
	BY	Old, L.J., "Tumor Necrosis Factor," Scientific American 258:59-75 (1988)	$\top$
	BZ	Rothe, M. et al., "TRAF2-Mediated Activation of NF-kB by TNF Receptor 2 and CD40," Science 269:1424-1427 (September 1995)	
	CA	Stanger, B.Z. et al., "RIP: A Novel Protein Containing a Death Domain That Interacts with Fas/APO-1 (CD95) in Yeast and Causes Cell Death," Cell 81.513-23 (May 1995)	

[&]quot;EXAMINER: initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant

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ΙN	IFORMATIC	ON DI	SCLOSURE	Filing Date	June 16, 1999
			APPLICANT	First Named Inventor	Guo-Liang Yu
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	(use as many	sheels a	s necessary)	Examiner Name	J. UIM
Sheet	4	of	4	Attorney Docket Number	PF267D1

	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Cite No 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magezine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue humper(s), publisher city and/or country where published	T*
СВ	Tartaglia, L. A., et al., "Tumor Necrosis Factor's Cytotoxic Activity is Signaled by the p55 TNF Receptor." Cell 73:213-216 (1993)	
СC	Tewari, M. and Dixit, V M, "Fas- and Tumor Necrosis Factor-induced Apoptosis Is Inhibited by the Poxvirus <i>crmA</i> Gene Product," <i>J. Biol. Chem.</i> 270:3255-3260 (February 1995)	*
CD	Vorobjev, P. E., et al., "Oligonucleotide Conjugated to Linear and Branched High Molecular Weight Polyethylene Glycol as Substrates for RNase H.," Nucleosides & Nucleotides 18:2745-2750 (November-December 1999)	
CE	Yoon, S.T. et al., "Both High and Low Avidity Antibodies to the T Cell Receptor Can	
	CB CC	Tartaglia, L. A., et al., "Tumor Necrosis Factor's Cytotoxic Activity is Signaled by the p55 TNF Receptor." Cell 73:213-216 (1993)  CC Tewari, M. and Dixit, V.M., "Fas- and Tumor Necrosis Factor-induced Apoptosis Is Inhibited by the Poxvirus crmA Gene Product," J. Biol. Chem. 270:3255-3260 (February 1995)  CD Vorobjev, P. E., et al., "Oligonucleotide Conjugated to Linear and Branched High Molecular Weight Polyethylene Glycol as Substrates for RNase H.," Nucleosides & Nucleotides 18:2745-2750 (November-December 1999)

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1		AC	5,643,575	07/01/1997	Marunez et al	

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4/	AD	WO 95/06058	03/02/1995	Royal Free Hospital School of Medicine		1
2	AE	WO 95/10540	04/20/1995	Immunex Corporation		
3	AF	EP 0 401 384 B1	12/12/1990	Kırın-Amgen, Inc.	•	Г
2	AG	WO 96/14328	05/17/1996	Human Genome Sciences, Inc		
8	AH	wO 96/26736	09/06/1996	Ludwig Institute for Cancer Research and Helsinki Univ. Licensing Ltd., Oy		
	Αl	WO 95/34095	10/31/1996	Human Genome Sciences, Inc.		Г
2	LA	WO 96/39515	12/12/1996	Human Genome Sciences, Inc.		Т
8	AK	WO 97/33899	09/18/1997	Human Genome Sciences, Inc.		
2	AL	WO 97/34911	09/25/1997	Human Genome Sciences, Inc.		
	ÀΜ	WO 98/02543	01/22/1998	Chugai Research Institute for Molecular Medicine, Inc.		
7	AN	WO 98/06842	02/19/1988	Schering Corporation		$\vdash$
2	AO	WO 98/07832	02/26/1998	Ludwig Institute for Cancer Research and Helsinki Univ. Licensing Ltd. Oy		
7	AP	WQ 98/0788Q	02/26/1998	Human Genome Sciences, Inc.		<u> </u>
1/	AQ	WO 98/14565	04/09/1998	Immunex Corporation	<del></del>	$\vdash$
V	AR	WO 98/18921	05/07/1998	Human Genome Sciences, Inc.		$\vdash$
11	AS	WO 98/30693	07/16/1998	Human Genome Sciences, Inc		$\vdash$
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	AU	WO 98/32466	07/30/1998	Polymase Pharmaceuticals PLC		$\vdash$
1/	AV	WO 98/41629	09/24/1998	Human Genome Sciences, Inc.		$\vdash$
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7	AX.	WO 98/56892	12/17/1998	Human Genome Sciences, Inc.		
	AY	EP 0 506 477 B1	09/30/1992	Merck & Co , Inc		
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h	ВA	CA 2,260,754	01/22/1998	Chugai Research Institute for Molecular Medicine, Inc.		

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		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
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	<b>.8</b> 18	Arend, W.P. et al., "Binding of IL-1 $\alpha$ , IL-1 $\beta$ , and IL-1 Receptor Antagonist by Soluble IL-1 Receptors and Levels of Soluble IL-1 Receptors in Synovial Fluids." J. Immunol 153:4766-4774 (1994)	
4	вс	Ashkenazi, A et al., "Protection against endotoxic shock by a tumor necrosis factor receptor immunoadhesin," Proc. Natl. Acad. Sci. USA 88.10535-10539 (1991)	
1	BD	Beutler, B. and Cerami, A., "Tumor Necrosis, Cachexia, Shock, and Inflammation: A Common Mediator," Ann. Rev. Biochem. 57 505-518 (1988)	
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1	<b>₽</b> 3	Corti, A et al., "Identification of an Epitope of Tumor Necrosis Factor (TNF)-Receptor Type 1 (p55) Recognized by a TNF-q-Antagonist Monocional Antibody," <i>Lymphokine Cytokine Res.</i> 13 183-190 (June 1994)	
2	ВК	Delgado, C. et al., "The Uses and Properties of PEG-Linked Proteins," Cnt. Rev. Ther. Drug Carner Systems 9.249-304 (1992)	
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		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
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1	₽O	Fu, M.L.X. et al., "Characterization of anti-peptide antibodies directed against an extracellular immunogenic epitope on the human gr-adrenergic receptor." Clin Exp. Immunol. 97 146-151 (July 1994)	
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^{*}EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609. Or aw little through coasion if not an conformance and not considered. Include copy of this form with next communication to applicant.

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